## INTERNATIONALSEARCHREPORT

International application No.

			PCT/JP20	04/015878
A. CLASSIFICATIONOF SUBJECT MATTER				
IntCl' B21J 5/08, 9/06, B21K 1/14, 1/18				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> B21J 1/00 - 13/14, 17/00 - 19/04, B21K 1/00 - 31/00				
INCCI B210 1/00 - 13/14, 1//00 - 13/04, B21K 1/00 - 31/00				
Documentation searched other than minimum documentation to the extent that such documents are included in the ficlds searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a	ppropriate, of the relev	ant passages	Relevant to claim No.
A	JP 5-237584 A(HONDA GIKEN 1993.09.17, the whole docu	-	ly: none)	1-16
<b>A</b>	JP 9-253782 A (MATSUMOTO HEAVY INDUSTRY CO., LTD) 1997.09.30, the whole document (Family: none)			
. <b>A</b>	WO 93/17810 A (ENKOTEC A/S) 1993.09.16, the whole document & JP 7-506767 A			1-16
A	JP 2003-170238 A (SHOWA DENKO K.K.) 2003.06.17, the whole document (Family: none)			1-16
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Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"E" earlier application or patent but published on or after the inter- national filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an				
"L" document which may throw doubts on priority claim(s) or which inventive step when the document is taken alone				
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other  "O" document referring to an oral disclosure, use, exhibition or other				
means  combination being obvious to a person skilled in the art  "P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search  Date of mailing of the international search report				h report
	22.02.2005	Λg	3 2005	•
Name and m	ailing address of the ISA/JP	Authorized officer	U. ZUVU	3P 8614
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